

Condition	Control	Mild	Severe
1	~95	~85	~75
2	~95	~85	~75
3	~95	~85	~75
4	~95	~85	~75

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<160> 6

<170> FastSEQ for Windows Version 3.0

 $\langle 210 \rangle$ 1

<211> 467

<212> PRT

<213> human

<400> 1

STEP 6: HOW TO EVALUATE

Asp Leu Val Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val
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 Glu Thr Ala Gln Glu Arg Asn Glu Thr Leu Phe Pro Ala Leu Ile Tyr
 275 280 285
 Ser Ser Thr Met Val Trp Leu Val Asn Met Ala Glu Gly Asp Pro Glu
 290 295 300
 Ala Gln Arg Arg Val Ser Lys Asn Ser Lys Tyr Asn Ala Glu Ser Thr
 305 310 315 320
 Glu Arg Glu Ser Gln Asp Thr Val Ala Glu Asn Asp Asp Gly Gly Phe
 325 330 335
 Ser Glu Glu Trp Glu Ala Gln Arg Asp Ser His Leu Gly Pro His Arg
 340 345 350
 Ser Thr Pro Glu Ser Arg Ala Ala Val Gln Glu Leu Ser Ser Ser Ile
 355 360 365
 Leu Ala Gly Glu Asp Pro Glu Glu Arg Gly Val Lys Leu Gly Leu Gly
 370 375 380
 Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala Ser Ala Thr Ala
 385 390 395 400
 Ser Gly Asp Trp Asn Thr Thr Ile Ala Cys Phe Val Ala Ile Leu Ile
 405 410 415
 Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
 420 425 430
 Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Val Phe Tyr Phe Ala
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 Phe Tyr Ile
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<400> 2

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 35 40 45
 Ser Gln Glu Asn Glu Glu Asp Gly Glu Glu Asp Pro Asp Arg Tyr Val
 50 55 60
 Cys Ser Gly Val Pro Gly Arg Pro Pro Gly Leu Glu Glu Glu Leu Thr
 65 70 75 80
 Leu Lys Tyr Gly Ala Lys His Val Ile Met Leu Phe Val Pro Val Thr
 85 90 95
 Leu Cys Met Ile Val Val Val Ala Thr Ile Lys Ser Val Arg Phe Tyr
 100 105 110
 Thr Glu Lys Asn Gly Gln Leu Ile Tyr Thr Pro Phe Thr Glu Asp Thr
 115 120 125
 Pro Ser Val Gly Gln Arg Leu Leu Asn Ser Val Leu Asn Thr Leu Ile
 130 135 140

Met	Ile	Ser	Val	Ile	Val	Val	Met	Thr	Ile	Phe	Leu	Val	Val	Leu	Tyr
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Lys	Tyr	Arg	Cys	Tyr	Lys	Phe	Ile	His	Gly	Trp	Leu	Ile	Met	Ser	Ser
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Leu	Met	Leu	Leu	Phe	Leu	Phe	Thr	Tyr	Ile	Tyr	Leu	Gly	Glu	Val	Leu
			180					185					190		
Lys	Thr	Tyr	Asn	Val	Ala	Met	Asp	Tyr	Pro	Thr	Leu	Leu	Leu	Thr	Val
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Trp	Asn	Phe	Gly	Ala	Val	Gly	Met	Val	Cys	Ile	His	Trp	Lys	Gly	Pro
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Leu	Val	Leu	Gln	Gln	Ala	Tyr	Leu	Ile	Met	Ile	Ser	Ala	Leu	Met	Ala
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Leu	Val	Phe	Ile	Lys	Tyr	Leu	Pro	Glu	Trp	Ser	Ala	Trp	Val	Ile	Leu
				245					250					255	
Gly	Ala	Ile	Ser	Val	Tyr	Asp	Leu	Val	Ala	Val	Leu	Cys	Pro	Lys	Gly
			260					265					270		
Pro	Leu	Arg	Met	Leu	Val	Glu	Thr	Ala	Gln	Glu	Arg	Asn	Glu	Pro	Ile
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Phe	Pro	Ala	Leu	Ile	Tyr	Ser	Ser	Ala	Met	Val	Trp	Thr	Val	Gly	Met
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Ala	Lys	Leu	Asp	Pro	Ser	Ser	Gln	Gly	Ala	Leu	Gln	Leu	Pro	Tyr	Asp
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Pro	Glu	Met	Glu	Glu	Asp	Ser	Tyr	Asp	Ser	Phe	Gly	Glu	Pro	Ser	Tyr
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Pro	Glu	Val	Phe	Glu	Pro	Pro	Leu	Thr	Gly	Tyr	Pro	Gly	Glu	Glu	Leu
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Glu	Glu	Glu	Glu	Glu	Arg	Gly	Val	Lys	Leu	Gly	Leu	Gly	Asp	Phe	Ile
		355					360					365			
Phe	Tyr	Ser	Val	Leu	Val	Gly	Lys	Ala	Ala	Ala	Thr	Gly	Ser	Gly	Asp
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Trp	Asn	Thr	Thr	Leu	Ala	Cys	Phe	Val	Ala	Ile	Leu	Ile	Gly	Leu	Cys
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Leu	Thr	Leu	Leu	Leu	Leu	Ala	Val	Phe	Lys	Lys	Ala	Leu	Pro	Ala	Leu
				405					410					415	
Pro	Ile	Ser	Ile	Thr	Phe	Gly	Leu	Ile	Phe	Tyr	Phe	Ser	Thr	Asp	Asn
			420					425					430		
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<400> 4

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			20					25					30		
Pro	Gly	Leu	Asn	Thr	Ser	Asn	Gly	Asp	Gly	Ser	Glu	Thr	Glu	Thr	Thr
		35					40					45			
Ser	Ala	Ile	Leu	Ala	Ser	Val	Lys	Glu	Gln	Glu	Leu	Gln	Phe	Glu	Arg
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Leu	Thr	Arg	Glu	Leu	Glu	Ala	Glu	Arg	Gln	Ile	Val	Ala	Ser	Gln	Leu
65					70					75					80
Glu	Arg	Cys	Lys	Leu	Gly	Ser	Glu	Thr	Gly	Ser	Met	Ser	Ser	Met	Ser
			85						90					95	
Ser	Ala	Glu	Glu	Gln	Phe	Gln	Trp	Gln	Ser	Gln	Asp	Gly	Gln	Lys	Asp
		100						105					110		
Ile	Glu	Asp	Glu	Leu	Thr	Thr	Gly	Leu	Glu	Leu	Val	Asp	Ser	Cys	Ile
	115						120					125			
Arg	Ser	Leu	Gln	Glu	Ser	Gly	Ile	Leu	Asp	Pro	Gln	Asp	Tyr	Ser	Thr
	130					135					140				
Gly	Glu	Arg	Pro	Ser	Leu	Leu	Ser	Gln	Ser	Ala	Leu	Gln	Leu	Asn	Ser
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Lys	Pro	Glu	Gly	Ser	Phe	Gln	Tyr	Pro	Ala	Ser	Tyr	His	Ser	Asn	Gln
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Thr	Leu	Ala	Leu	Gly	Glu	Thr	Thr	Pro	Ser	Gln	Leu	Pro	Ala	Arg	Gly
		180						185					190		
Thr	Gln	Ala	Arg	Ala	Thr	Gly	Gln	Ser	Phe	Ser	Gln	Gly	Thr	Thr	Ser
	195					200						205			
Arg	Ala	Gly	His	Leu	Ala	Gly	Pro	Glu	Pro	Ala	Pro	Pro	Pro	Pro	Pro

210	215	220
Pro Pro Arg Glu Pro Phe Ala Pro Ser Leu Gly Ser Ala Phe His Leu		
225	230	235
Pro Asp Ala Pro Pro Ala Ala Ala Ala Ala Leu Tyr Tyr Ser Ser		240
	245	250
Ser Thr Leu Pro Ala Pro Pro Arg Gly Gly Ser Pro Leu Ala Ala Pro		255
	260	265
Gln Gly Gly Ser Pro Thr Lys Leu Gln Arg Gly Gly Ser Ala Pro Glu		270
	275	280
Gly Ala Thr Tyr Ala Ala Pro Arg Gly Ser Ser Pro Lys Gln Ser Pro		285
	290	295
Ser Arg Leu Ala Lys Ser Tyr Ser Thr Ser Ser Pro Ile Asn Ile Val		300
305	310	315
Val Ser Ser Ala Gly Leu Ser Pro Ile Arg Val Thr Ser Pro Pro Thr		320
	325	330
Val Gln Ser Thr Ile Ser Ser Ser Pro Ile His Gln Leu Ser Ser Thr		335
	340	345
Ile Gly Thr Tyr Ala Thr Leu Ser Pro Thr Lys Arg Leu Val His Ala		350
	355	360
Ser Glu Gln Tyr Ser Lys His Ser Gln Glu Leu Tyr Ala Thr Ala Thr		365
	370	375
Leu Gln Arg Pro Gly Ser Leu Ala Ala Gly Ser Arg Ala Ser Tyr Ser		380
385	390	395
Ser Gln His Gly His Leu Gly Pro Glu Leu Arg Ala Leu Gln Ser Pro		400
	405	410
Glu His His Ile Asp Pro Ile Tyr Glu Asp Arg Val Tyr Gln Lys Pro		415
	420	425
Pro Met Arg Ser Leu Ser Gln Ser Gln Gly Asp Pro Leu Pro Pro Ala		430
	435	440
His Thr Gly Thr Tyr Arg Thr Ser Thr Ala Pro Ser Ser Pro Gly Val		445
	450	455
Asp Ser Val Pro Leu Gln Arg Thr Gly Ser Gln His Gly Pro Gln Asn		460
465	470	475
Ala Ala Ala Ala Thr Phe Gln Arg Ala Ser Tyr Ala Ala Gly Pro Ala		480
	485	490
Ser Asn Tyr Ala Asp Pro Tyr Arg Gln Leu Gln Tyr Cys Pro Ser Val		495
	500	505
Glu Ser Pro Tyr Ser Lys Ser Gly Pro Ala Leu Pro Pro Glu Gly Thr		510
	515	520
Leu Ala Arg Ser Pro Ser Ile Asp Ser Ile Gln Lys Asp Pro Arg Glu		525
	530	535
Phe Gly Trp Arg Asp Pro Glu Leu Pro Glu Val Ile Gln Met Leu Gln		540
545	550	555
His Gln Phe Pro Ser Val Gln Ser Asn Ala Ala Ala Tyr Leu Gln His		560
	565	570
Leu Cys Phe Gly Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly		575
	580	585
Gly Ile Gln Leu Leu Val Asp Leu Leu Asp His Arg Met Thr Glu Val		590
	595	600
His Arg Ser Ala Cys Gly Ala Leu Arg Asn Leu Val Tyr Gly Lys Ala		605
	610	620
Asn Asp Asp Asn Lys Ile Ala Leu Lys Asn Cys Gly Gly Ile Pro Ala		630
625	630	635
		640

Leu	Val	Arg	Leu	Leu	Arg	Lys	Thr	Thr	Asp	Leu	Glu	Ile	Arg	Glu	Leu
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Val	Thr	Gly	Val	Leu	Trp	Asn	Leu	Ser	Ser	Cys	Asp	Ala	Leu	Lys	Met
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Pro	Ile	Ile	Gln	Asp	Ala	Leu	Ala	Val	Leu	Thr	Asn	Ala	Val	Ile	Ile
		675					680					685			
Pro	His	Ser	Gly	Trp	Glu	Asn	Ser	Pro	Leu	Gln	Asp	Asp	Arg	Lys	Ile
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Gln	Leu	His	Ser	Ser	Gln	Val	Leu	Arg	Asn	Ala	Thr	Gly	Cys	Leu	Arg
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Asn	Val	Ser	Ser	Ala	Gly	Glu	Glu	Ala	Arg	Arg	Arg	Met	Arg	Glu	Cys
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Asp	Gly	Leu	Thr	Asp	Ala	Leu	Leu	Tyr	Val	Ile	Gln	Ser	Ala	Leu	Gly
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Ser	Ser	Glu	Ile	Asp	Ser	Lys	Thr	Val	Glu	Asn	Cys	Val	Cys	Ile	Leu
		755					760					765			
Arg	Asn	Leu	Ser	Tyr	Arg	Leu	Ala	Ala	Glu	Thr	Ser	Gln	Gly	Gln	His
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Lys	Asp	Ala	Glu	Ser	Ser	Gly	Cys	Trp	Gly	Lys	Lys	Lys	Lys	Lys	Lys
				805					810					815	
Lys	Ser	Gln	Asp	Gln	Trp	Asp	Gly	Val	Gly	Pro	Leu	Pro	Asp	Cys	Ala
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Glu	Pro	Pro	Lys	Gly	Ile	Gln	Met	Leu	Trp	His	Pro	Ser	Ile	Val	Lys
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Pro	Tyr	Leu	Thr	Leu	Leu	Ser	Glu	Cys	Ser	Asn	Pro	Asp	Thr	Leu	Glu
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Ser	Val	Tyr	Ile	Arg	Ala	Ala	Val	Arg	Lys	Glu	Lys	Gly	Leu	Pro	Ile
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Leu	Val	Glu	Leu	Leu	Arg	Ile	Asp	Asn	Asp	Arg	Val	Val	Cys	Ala	Val
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Ala	Thr	Ala	Leu	Arg	Asn	Met	Ala	Leu	Asp	Val	Arg	Asn	Lys	Glu	Leu
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Ile	Gly	Lys	Tyr	Ala	Met	Arg	Asp	Leu	Val	His	Arg	Leu	Pro	Gly	Gly
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Ser Thr Leu Tyr Arg Asn Ser Tyr Gly Ala Pro Ala Glu Asp Ile Lys		
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Asp Tyr Glu Thr Tyr Gln Pro Phe Gln Asn Ser Thr Arg Asn Tyr Asp		
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Glu Ser Phe Phe Glu Asp Gln Val His His Arg Pro Pro Ala Ser Glu		
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Tyr Thr Met His Leu Gly Leu Lys Ser Thr Gly Asn Tyr Val Asp Phe		
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Tyr Ser Ala Ala Arg Pro Tyr Ser Glu Leu Asn Tyr Glu Thr Ser His		
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Tyr Pro Ala Ser Pro Asp Ser Trp Val		
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Leu	Thr	Arg	Glu	Leu	Glu	Ala	Glu	Arg	Gln	Ile	Val	Ala	Ser	Gln	Leu
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Glu	Arg	Cys	Lys	Leu	Gly	Ser	Glu	Thr	Gly	Ser	Met	Ser	Ser	Ile	Ser
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Ser	Glu	Arg	Pro	Ser	Leu	Leu	Ser	Gln	Ser	Ala	Leu	Gln	Leu	Asn	Ser
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Thr	Leu	Ala	Leu	Gly	Asp	Thr	Ala	Pro	Ser	Gln	Leu	Pro	Ala	Arg	Ser
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Thr	Gln	Ala	Arg	Ala	Ala	Gly	Gln	Ser	Phe	Ser	Gln	Gly	Thr	Thr	Gly
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225				230						235				240	
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Pro	Ala	Pro	Pro	Arg	Gly	Gly	Ser	Pro	Leu	Thr	Thr	Thr	Gln	Gly	Gly
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Ser	Pro	Thr	Lys	Leu	Gln	Arg	Gly	Gly	Ser	Ala	Pro	Glu	Gly	Ala	Ala
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Tyr	Ala	Ala	Pro	Arg	Gly	Ser	Ser	Pro	Lys	Gln	Ser	Pro	Ser	Arg	Leu
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Ala	Lys	Ser	Tyr	Ser	Thr	Ser	Ser	Pro	Ile	Asn	Ile	Val	Val	Ser	Ser
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Ala	Gly	Leu	Ser	Pro	Ile	Arg	Val	Thr	Ser	Pro	Pro	Thr	Val	Gln	Ser	325	330	335
Thr	Ile	Ser	Ser	Ser	Pro	Ile	His	Gln	Leu	Ser	Ser	Thr	Ile	Gly	Thr	340	345	350
Tyr	Ala	Thr	Leu	Ser	Pro	Thr	Lys	Arg	Leu	Val	His	Ala	Ser	Glu	Gln	355	360	365
Tyr	Ser	Lys	His	Ser	Gln	Glu	Leu	Tyr	Ala	Thr	Ala	Thr	Leu	Gln	Arg	370	375	380
Pro	Gly	Ser	Leu	Ala	Ala	Gly	Ser	Arg	Ala	Ser	Tyr	Ser	Ser	Gln	His	385	390	395
Gly	His	Leu	Ala	Pro	Glu	Leu	Arg	Ala	Leu	Gln	Ser	Pro	Glu	His	His	405	410	415
Ile	Asp	Pro	Ile	Tyr	Glu	Asp	Arg	Val	Tyr	Gln	Lys	Pro	Pro	Met	Arg	420	425	430
Ser	Leu	Ser	Gln	Ser	Gln	Gly	Asp	Pro	Leu	Pro	Pro	Ala	His	Thr	Gly	435	440	445
Thr	Phe	Arg	Thr	Ser	Thr	Ala	Pro	Ser	Ser	Pro	Gly	Val	Asp	Ser	Val	450	455	460
Pro	Leu	Gln	Arg	Thr	Gly	Ser	Gln	His	Gly	Pro	Gln	Asn	Ala	Ala	Ala	465	470	475
Ala	Thr	Phe	Gln	Arg	Ala	Ser	Tyr	Ala	Ala	Gly	Pro	Ala	Ser	Asn	Tyr	485	490	495
Ala	Asp	Pro	Tyr	Arg	Gln	Leu	Gln	Tyr	Cys	Ala	Ser	Val	Asp	Ser	Pro	500	505	510
Tyr	Ser	Lys	Ser	Gly	Pro	Ala	Leu	Pro	Pro	Glu	Gly	Thr	Leu	Ala	Arg	515	520	525
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Arg	Asp	Pro	Glu	Leu	Pro	Glu	Val	Ile	Gln	Met	Leu	Gln	His	Gln	Phe	545	550	555
Pro	Ser	Val	Gln	Ser	Asn	Ala	Ala	Ala	Tyr	Leu	Gln	His	Leu	Cys	Phe	565	570	575
Gly	Asp	Asn	Lys	Ile	Lys	Ala	Glu	Ile	Arg	Arg	Gln	Gly	Gly	Ile	Gln	580	585	590
Leu	Leu	Val	Asp	Leu	Leu	Asp	His	Arg	Met	Thr	Glu	Val	His	Arg	Ser	595	600	605
Ala	Cys	Gly	Ala	Leu	Arg	Asn	Leu	Val	Tyr	Gly	Lys	Ala	Asn	Asp	Asp	610	615	620
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Leu	Leu	Arg	Lys	Thr	Thr	Asp	Leu	Glu	Ile	Arg	Glu	Leu	Val	Thr	Gly	645	650	655
Val	Leu	Trp	Asn	Leu	Ser	Ser	Cys	Asp	Ala	Leu	Lys	Met	Pro	Ile	Ile	660	665	670
Gln	Asp	Ala	Leu	Ala	Val	Leu	Thr	Asn	Ala	Val	Ile	Ile	Pro	His	Ser	675	680	685
Gly	Trp	Glu	Asn	Ser	Pro	Leu	Gln	Asp	Asp	Arg	Lys	Ile	Gln	Leu	His	690	695	700
Ser	Ser	Gln	Val	Leu	Arg	Asn	Ala	Thr	Gly	Cys	Leu	Arg	Asn	Val	Ser	705	710	715
Ser	Ala	Gly	Glu	Glu	Ala	Arg	Arg	Arg	Met	Arg	Glu	Cys	Asp	Gly	Leu	725	730	735
Thr	Asp	Ala	Leu	Leu	Tyr	Val	Ile	Gln	Ser	Ala	Leu	Gly	Ser	Ser	Glu			

740					745					750					
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